

FIGURE 1.

A graph showing the relationship between the electromotive force (emf) in Volts and the percentage of hydrogen gas in a mixture. The x-axis, labeled 'Percent Hydrogen', is on a logarithmic scale with major ticks at  $10^{-2}$ ,  $10^{-1}$ ,  $10^0$ ,  $10^1$ , and  $10^2$ . The y-axis, labeled 'emf (V)', is on a linear scale from 0.0 to 0.9 with major ticks every 0.1 units. Five data points are plotted as open circles, and a straight line is drawn through them. The data points are approximately at (0.01, 0.60), (0.1, 0.65), (1, 0.68), (10, 0.72), and (100, 0.75).

Percent Hydrogen	emf (V)
0.01	0.60
0.1	0.65
1	0.68
10	0.72
100	0.75

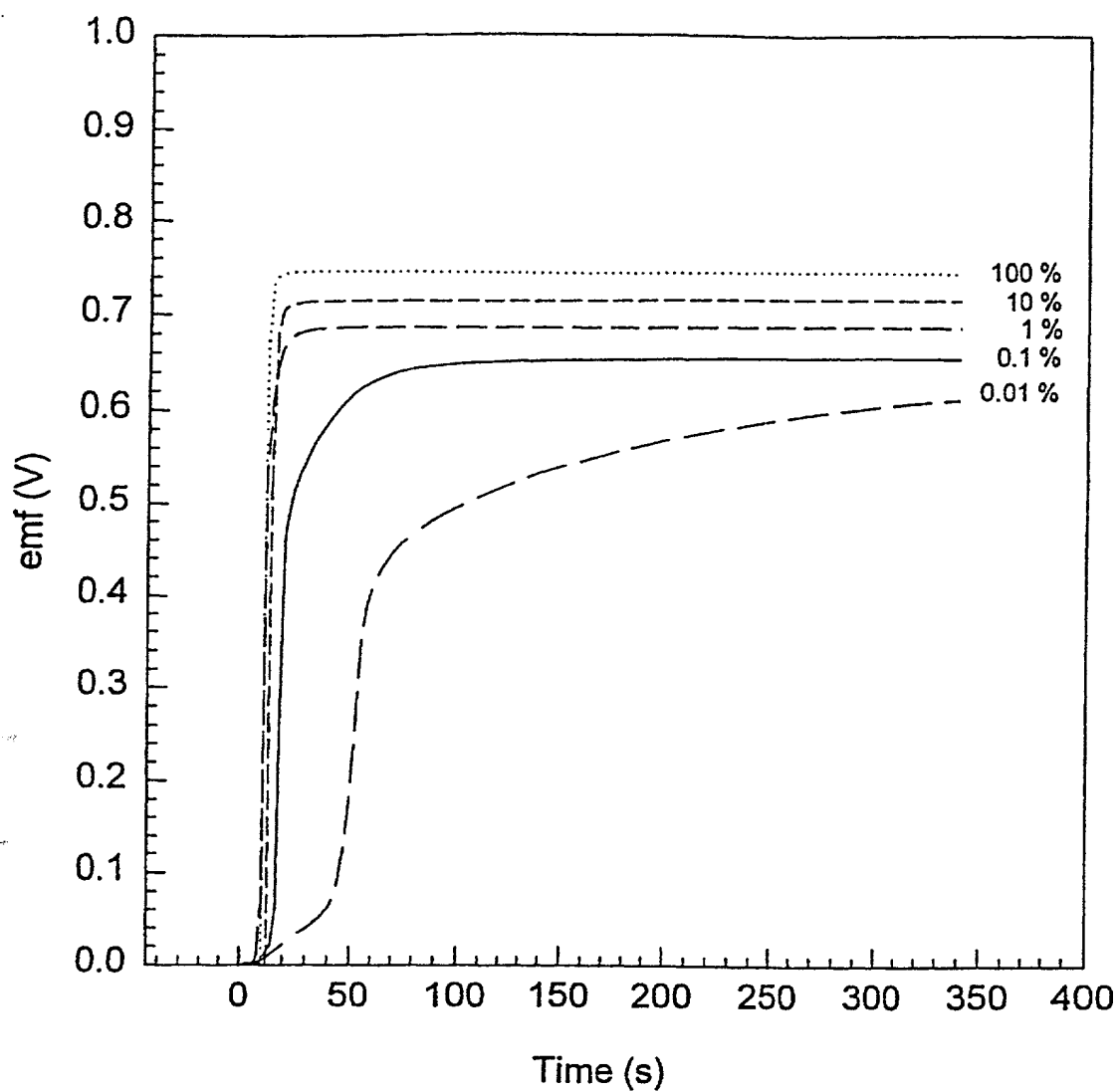


Figure 3. Response time of sensor to various hydrogen concentrations in nitrogen, after exposure to air.

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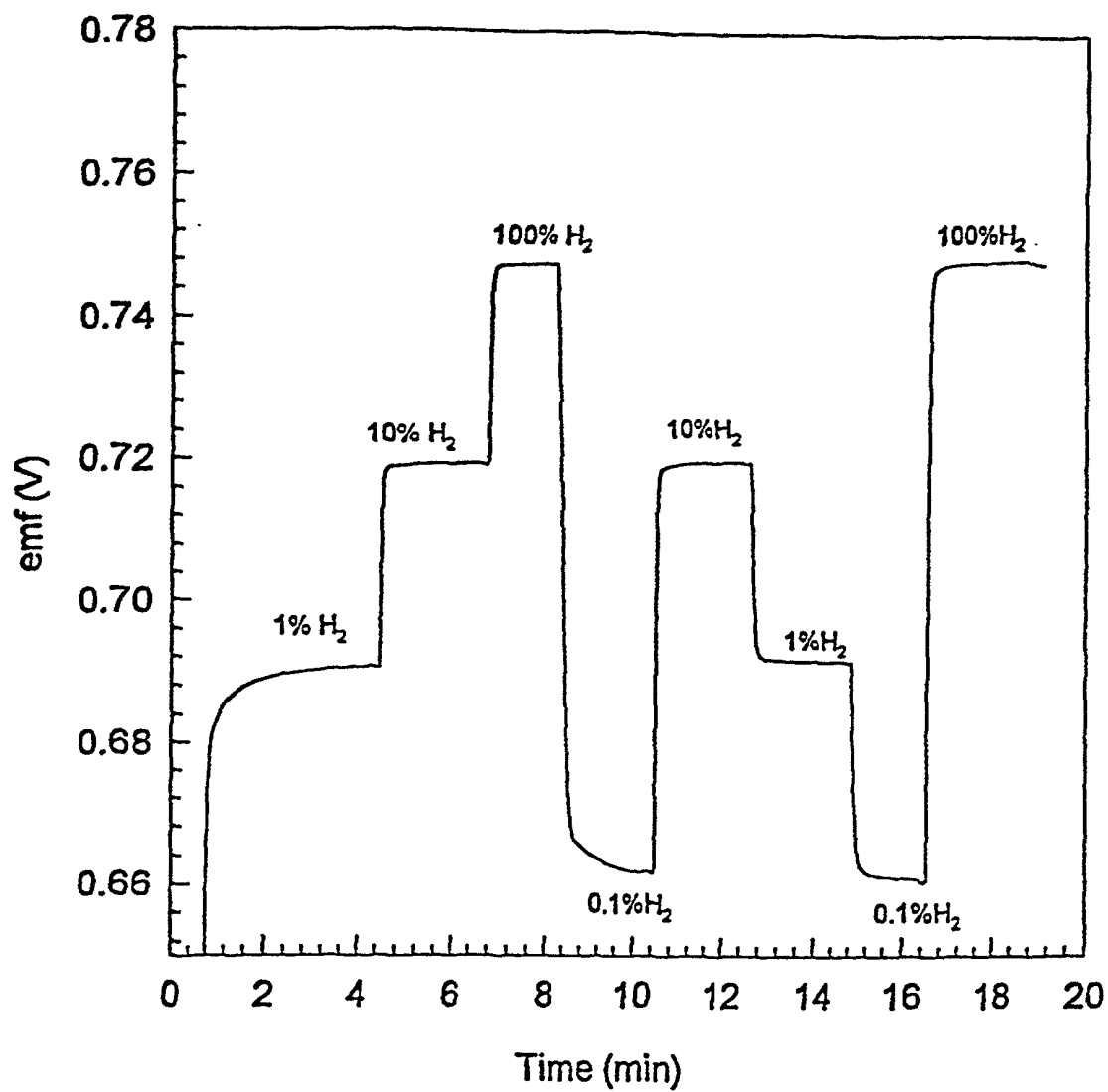


Fig. 4. The response time of the sensor to various hydrogen concentrations in nitrogen without exposure to air